

APPENDIX 14-7

SEEP AND SPRING FLOW RATE AND TEMPERATURE MEASUREMENTS



Field Number	JUNE 1985		OCT. 1985		JULY 1987		OCT. 1987		OCT. 1989		JUNE 1990		OCT./NOV. 1990	
	Flow (gpm)	Temp (C)	Flow (gpm)	Temp (C)										
SP-48	SEEP	(a)	Dry	-	-	-	-	-	Dry	-	Dry	-	(c)	-
SP-48a	-	-	-	-	-	-	-	-	-	-	2	6.0	(c)	-
SP-48b	-	-	-	-	-	-	-	-	-	-	1.5	6.0	(c)	-
SP-49	Seep	(a)	Dry	-	-	-	-	-	Dry	-	Seep	(a)	Dry	-
SP-50	Seep	(a)	Dry	-	-	-	-	-	Dry	-	Seep	(a)	Dry	-
SP-51	Seep	(a)	Dry	-	-	-	-	-	Dry	-	Seep	(a)	Dry	-
SP-52	1	12.0	1	7.0	-	-	-	-	<<1	6.7	<1	11.0	Dry	-
SP-53	8	5.5	5	5.0	-	-	-	-	Dry	-	<1	6.0	4.0	5.0
SP-54	15	5.5	5	5.5	-	-	-	-	<<1	2.2	2	5.0	Dry	-
SP-55	10	5.5	10	5.5	-	-	-	-	Seep	(a)	5	6.0	Dry	-
SP-56	15	5.5	15	6.5	-	-	-	-	Seep	(a)	5	6.0	Dry	-
SP-57	6	5.5	4.5	4.5	-	-	-	-	Dry	-	Seep	(a)	(b)	-
SP-58	10	5.0	5	9.0	-	-	-	-	4	5.6	20	5.0	6.0	5.0
SP-59	1	7.0	1	5.0	-	-	-	-	Dry	-	Seep	(a)	Dry	-
SP-60	Seep	(a)	Dry	-	-	-	-	-	Dry	-	Seep	(a)	(c)	-
SP-61	15	2.0	1	9.0	-	-	-	-	Dry	-	3	4.0	(c)	-
SP-62	Seep	(a)	Dry	-	-	-	-	-	Dry	(a)	Seep	(a)	(c)	-

JUNE 1985 OCT. 1985 JULY 1987 OCT. 1987 OCT. 1989 JUNE 1990 OCT./NOV. 1990

Field Number	Flow (gpm)	Temp (C)										
SP-63	Seep	(a)	Dry	-	-	-	Dry	-	Seep	(a)	(c)	-
SP-64	10	3.0	Dry	-	-	Dry	-	-	2	5.0	(c)	-
SP1-1	-	-	-	2.9	3	7.0	Seep (a)	2.9	<1	7.0	Seep	8
SP1-2	-	-	-	4.0	Dry	-	Dry	-	2.5	9.0	(b)	-
SP1-2a	-	-	-	4.0	1	7.0	<<1	2.9	3	3.0	Seep	1.0
SP1-3	-	-	-	2.0	<1	2.0	<<1	2.8	3	3.0	(b)	2.0
SP1-4	-	-	-	Seep (a)	Seep	(a)	Dry	-	<1	3.0	Dry	-
SP1-5	-	-	-	Seep (a)	Seep	(a)	Dry	-	<1	4.0	Dry	-
SP1-6	-	-	-	Seep (a)	Seep	(a)	Dry	-	<1	4.0	Seep	(a)
SP1-7	-	-	-	Seep (a)	Seep	(a)	Dry	-	<1	7.0	Seep	(a)
SP1-8	-	-	-	<<1	11.0	Dry	<<1	5.6	1	10.0	Seep	6.0
SP1-9	-	-	-	Seep (a)	Seep	(a)	Seep	(a)	1.5	4.0	Seep	8.0
SP1-10	-	-	-	Seep (a)	Seep	(a)	Dry	-	2	4.0	(c)	-
SP1-10a	-	-	-	-	-	-	(b)	-	Dry	-	(c)	-
SP1-10b	-	-	-	-	-	-	-	-	4	-	4	(c)
SP1-11	-	-	-	4.0	3	4.0	(b)	-	5	4.0	Dry	-
SP1-12	-	-	-	Seep (a)	Seep	(a)	<<1	3.3	10	5.0	Dry	-

JUNE 1985    OCT. 1985    JULY 1987    OCT. 1987    OCT. 1989    JUNE 1990    OCT./NOV. 1990

Field Number	Flow (gpm)	Temp (C)										
SP1-13	-	-	Seep	(a)	Seep	(a)	Seep	(a)	3	6.0	Seep	(a)
SP1-13a	-	-	-	-	-	-	-	-	2	5.0	5	6.0
SP1-13b	-	-	-	-	-	-	-	-	5	3.0	1	5.0
SP1-14	-	-	Seep	(a)	Seep	(a)	Seep	(a)	10	4.0	Seep	(a)
SP1-15	-	-	<<1	5.0	Dry	-	<<1	2.2	10	6.0	Dry	-
SP1-16	-	-	<<1	11.0	Dry	-	Dry	-	20	5.0	0.25	5.0
SP1-16a	-	-	-	-	-	-	-	-	15	5.0	Seep	5.0
SP1-17	-	-	10	5.0	2	4.0	Dry	-	40	5.0	Dry	-
SP1-17a	-	-	-	-	-	-	-	-	10	5.0	Dry	-
SP1-18	-	-	Seep	(a)	Seep	(a)	Dry	-	50	5.0	Seep	(a)
SP1-19	-	-	<<1	6.0	Dry	-	Dry	-	30	4.0	0.25	5.0
SP1-20	-	-	<1	4.0	<1	8.0	(b)	-	10	4.0	0.25	5.0
SP1-21	-	-	<1	4.0	Dry	-	(b)	-	15	4.0	Seep	(a)
SP1-21a	-	-	-	-	-	-	-	-	10	6.0	Seep	(a)
SP1-21b	-	-	-	-	-	-	-	-	5	4.0	Dry	-
SP1-22	-	-	Seep	(a)	Seep	(a)	Dry	-	5	4.0	Dry	-
SP1-23	-	-	Seep	(a)	Seep	(a)	Dry	-	7	5.0	Seep	(a)

JUNE 1985    OCT. 1985    JULY 1987    OCT. 1987    OCT. 1989    JUNE 1990    OCT./NOV. 1990

Field Number	Flow (gpm)	Temp (C)										
SP1-24	-	-	<1	5.0	Seep	(a)	<<1	3.3	5	5.0	Seep	5.5
SP1-25	-	-	3	3.6	3	7.0	<<1	4.4	3	4.0	1.0	4.0
SP1-26	-	-	2	3.7	2	7.0	<1	4.4	3	3.0	0.5	4.0
SP1-27	-	-	<1	2.8	Dry	-	<<1	5.0	2	2.0	0.5	3.0
SP1-28	-	-	Seep	(a)	Seep	(a)	Dry	-	Seep	(a)	(c)	-
SP1-29	-	-	<<1	3.0	Dry	-	Seep	(a)	2	4.0	(b)	-
SP1-29a	-	-	-	-	-	-	-	-	Seep	(a)	(b)	-
SP1-29b	-	-	-	-	-	-	-	-	Seep	(a)	(b)	-
SP1-30	-	-	<1	3.1	Dry	-	<<1	6.8	10.5	4.0	(c)	-
SP1-30a	-	-	-	-	-	-	-	-	Seep	(a)	(c)	-
SP1-30b	-	-	-	-	-	-	-	-	Seep	(a)	(c)	-
SP1-31	-	-	<1	3.3	Dry	-	Seep	(a)	5	7.0	(c)	-
SP1-32	-	-	Seep	(a)	Seep	(a)	-	-	5	4.0	(c)	-
SP1-32a	-	-	-	-	-	-	-	-	10	4.0	Dry	-
SP1-33	-	-	Seep	(a)	<1	7.0	<1	5.5	2	16.0	3.0	7.0
SP1-34	-	-	<<1	4.0	15	8.0	<<1	10.8	8	14.0	Seep	(a)
SP1-35	-	-	1	11.0	4	7.0	<<1	14.5	15	6.0	0.5	7.0

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	Flow (gpm)	Temp (C)	Flow (gpm)	Temp (C)										
SP1-36	-	-	-	-	<<1	4.0	3	8.0	<<1	9.3	3	7.0	1.0	7.0
SP1-37	-	-	-	-	Seep	(a)	4	5.0	<<1	5.6	2	15.0	2.0	7.0
SP1-37a	-	-	-	-	<1	4.2	3	7.0	<1	6.5	1	16.0	Seep	(a)
SP1-38	-	-	-	-	<<1	4.2	2	7.0	<<1	7.4	6	7.0	Seep	(a)
SP1-39	-	-	-	-	<1	4.1	3	7.0	<<1	9.0	4	10.0	Seep	(a)
SP1-40	-	-	-	-	<<1	4.4	10	7.0	<1	6.8	1	12.0	0.5	0.5
SP1-40a	-	-	-	-	Seep	(a)	5	7.0	<<1	5.4	5	13.0	-	-
SP1-41	-	-	-	-	Seep	(a)	2	7.0	Dry	-	Seep	(a)	Seep	(a)
SP1-41a	-	-	-	-	-	-	-	-	-	-	-	-	0.5	9.0
SP1-42	-	-	-	-	1	3.3	<1	10.0	Dry	-	1	8.0	Seep	(a)
SP1-43	-	-	-	-	<1	3.3	1	7.0	Dry	-	10	7.0	Seep	(a)
SP1-44	-	-	-	-	3	12.0	5	7.0	Dry	-	2	14.0	3.0	7.0
SP1-45	-	-	-	-	-	-	-	-	<<1	6.1	5	11.0	2.0	7.0
SP1-46	-	-	-	-	-	-	-	-	<<1	9.0	7	15.0	2.0	12.0
SP1-47	-	-	-	-	-	-	-	-	<<1	6.8	4	11.0	0.5	9.0
SP1-48	-	-	-	-	-	-	-	-	<<1	4.1	1.5	4.0	Seep	(a)
SP1-49	-	-	-	-	-	-	-	-	Seep	(a)	5	5.0	(c)	-

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	Flow (gpm)	Temp (C)	Flow (gpm)	Temp (C)										
SP1-50	-	-	-	-	-	-	-	-	Seep	(a)	2.5	6.0	(c)	-
SP1-51	-	-	-	-	-	-	-	<<1	7.9	5	4.0	(c)	-	
SP1-52	-	-	-	-	-	-	-	Seep	(a)	10	4.0	(c)	-	
SP1-53	-	-	-	-	-	-	-	<<1	7.5	1	6.0	Seep	2.0	
SP1-53a	-	-	-	-	-	-	-	-	-	<1	10.0	(c)	-	
SP1-54	-	-	-	-	-	-	-	<<1	4.9	Seep	(a)	(c)	-	
SP2-1	-	-	-	-	4	5.0	Dry	-	1.5	10.0	10	7.0	Seep	(a)
SP2-2	-	-	-	-	Seep	(a)	Seep	(a)	Dry	-	15	7.0	Dry	-
SP2-2a	-	-	-	-	-	-	-	-	-	-	5	13.0	0.5	4.0
SP2-3	-	-	-	-	5	14.0	Dry	-	<<1	5.5	1	8.0	Seep	(a)
SP2-4	-	-	-	-	10	6.0	Dry	-	Dry	-	6	9.0	Dry	-
SP2-5	-	-	-	-	2	5.0	Dry	-	Dry	-	<1	4.0	Dry	-
SP2-6	-	-	-	-	5	5.0	Dry	-	Dry	-	3	7.0	Seep	(a)
SP2-7	-	-	-	-	4	6.0	Dry	-	Dry	-	<1	15.0	Dry	-
SP2-8	-	-	-	-	Seep	(a)	Dry	-	Dry	-	1	12.0	1.0	6.0
SP2-9	-	-	-	-	5	5.0	1	4.0	<<1	4.4	2	4.0	Seep	5.5
SP2-10	-	-	-	-	2	6.0	Dry	-	Dry	-	Dry	-	Dry	-

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	Flow (gpm)	Temp (C)	Flow (gpm)	Temp (C)										
SP2-11	-	-	-	-	<<1	6.0	Dry	-	Dry	-	1	6.0	Dry	-
SP2-12	-	-	-	-	Seep	(a)	Dry	-	Dry	-	<1	6.0	Dry	-
SP2-15	-	-	-	-	2	8.0	Dry	-	Dry	-	2	9.0	(c)	-
SP2-16	-	-	-	-	Seep	(a)	(c)	(c)	Dry	-	Dry	-	(c)	-
SP2-17	-	-	-	-	<<1	7.0	(c)	(c)	Dry	(c)	(c)	(c)	(c)	-
SP2-18	-	-	-	-	Seep	(a)	(c)	(c)	Dry	-	Seep	(a)	(c)	-
SP2-19	-	-	-	-	Seep	(a)	(c)	(c)	Dry	-	Seep	(a)	(c)	-
SP2-20	-	-	-	-	Seep	(a)	(c)	(c)	Dry	-	Seep	(a)	(c)	-
SP2-21	-	-	-	-	7	5.0	(c)	(c)	Dry	-	Seep	(a)	(c)	-
SP2-22	-	-	-	-	1	5.0	(c)	(c)	Dry	-	4	7.0	(c)	-
SP2-22a	-	-	-	-	-	-	-	-	-	-	5	3.0	(c)	-
SP2-23	-	-	-	-	5	5.0	(c)	(c)	Dry	-	Seep	(a)	(c)	-
SP2-24	-	-	-	-	5	3.5	Seep	(a)	Dry	-	10	4.0	1.0	4.5
SP2-24a	-	-	-	-	-	-	-	-	Seep	(a)	5	5.0	Dry	-
SP2-24b	-	-	-	-	-	-	-	-	-	-	2	5.0	Dry	-
SP2-25	-	-	-	-	Seep	(a)	Seep	(a)	Dry	-	Seep	(a)	Dry	-
SP2-26	-	-	-	-	Seep	(a)	Dry	-	Dry	-	1	6.0	(b)	-

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Field Number	Flow (gpm)	Temp (C)										
SP2-27	-	-	4	3.0	1	4.0	<<1	4.4	3	4.0	(b)	-
SP2-28	-	-	2	4.0	<1	4.0	<<1	3.8	2.5	5.0	Seep	(7.0)
SP2-29	-	-	2	4.0	Dry	-	Seep	(a)	2	9.0	(c)	-
SP2-30	-	-	1	4.0	<<1	4.0	<1	1.1	<1	5.0	(c)	-
SP2-30a	-	-	-	-	-	-	-	-	<1	5.0	(c)	-
SP2-31	-	-	2	6.0	Seep	(a)	Seep	(a)	5	4.0	(b)	-
SP2-32	-	-	2	4.0	<1	4.0	Seep	(a)	5	10.0	(b)	-
SP2-32a	-	-	-	-	-	-	-	-	1	5.0	(b)	-
SP2-32b	-	-	-	-	-	-	-	-	Seep	(a)	(b)	-
SP2-33	-	-	2	4.0	Dry	-	Seep	(a)	Seep	(a)	(b)	-
SP2-33a	-	-	4	4.0	1	5.0	<<1	2.2	15	5.0	0.5	4.0
SP2-34	-	-	2	6.0	Dry	-	Dry	-	7	6.0	(b)	-
SP2-35	-	-	5	6.0	<1	5.0	<<1	5.6	15	5.0	(c)	-
SP2-36	-	-	Seep	(a)	Dry	-	Dry	-	5	15.0	(c)	-
SP2-36a	-	-	-	-	-	-	-	-	1	8.0	(c)	-
SP2-36b	-	-	-	-	-	-	-	-	3	4.0	(c)	-
SP2-37	-	-	6	5.0	Dry	-	<<1	8.9	5	15.0	(c)	-

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	Flow (gpm)	Temp (C)	Flow (gpm)	Temp (C)										
SP2-38	-	-	-	-	5	4.0	Dry	-	Seep (a)	-	10	6.0	(c)	-
SP2-39	-	-	-	-	4	6.0	Dry	-	Dry	-	Dry	-	(c)	-
SP2-40	-	-	-	-	3	5.0	Dry	-	Dry	-	Dry	-	(c)	-
SP2-40a	-	-	-	-	-	-	-	-	-	-	7	5.0	(c)	-
SP2-40b	-	-	-	-	-	-	-	-	-	-	>1	5.0	(c)	-
SP2-41	-	-	-	-	3	6.0	Seep (a)	Seep (a)	Seep (a)	1	6.0	6.0	(c)	-
SP2-42	-	-	-	-	-	-	-	<<1	3.1	5	4.0	0.25	3.0	-
SP2-43	-	-	-	-	-	-	-	Seep	(a)	1	5.0	0.5	6.0	-
SP2-43a	-	-	-	-	-	-	-	-	-	3	7.0	0.5	8.0	-
SP2-44	-	-	-	-	-	-	-	Seep	(a)	1	5.0	(b)	-	-
SP2-44a	-	-	-	-	-	-	-	-	-	<1	5.0	(b)	-	-
SP2-44b	-	-	-	-	-	-	-	-	-	1	5.0	(b)	-	-

(a) Insufficient water to sample

(b) Frozen

(c) Inaccessible due to weather and ground conditions